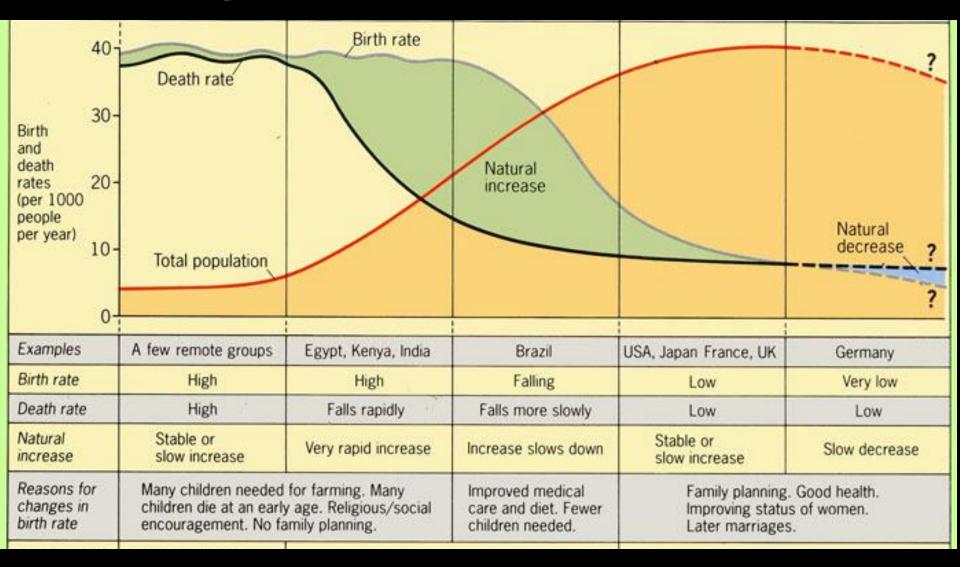
Demographic Transition Model

Age Structure Diagrams {Human Population

Demographic Transition Model

- The <u>Demographic Transition Model</u> is a model that proposes how populations should change over time in terms of their birth rates, death rates and total population size.
- shows pop. chgs. in birth/death rates, and size
- explains how pop. chgs. from high to low birth/death rates
- developed ctrys. --started early (18th c.) and continues
- less developed ctrys--started later, continues today
- The demographic transition model explains the transformation of countries from having high birth and death rates to low birth and death rates.
- In developed countries this transition began in the 18th century and continues today.
- Less developed countries began the transition later and many are still in earlier stages of the model.

Demographic Transition Model

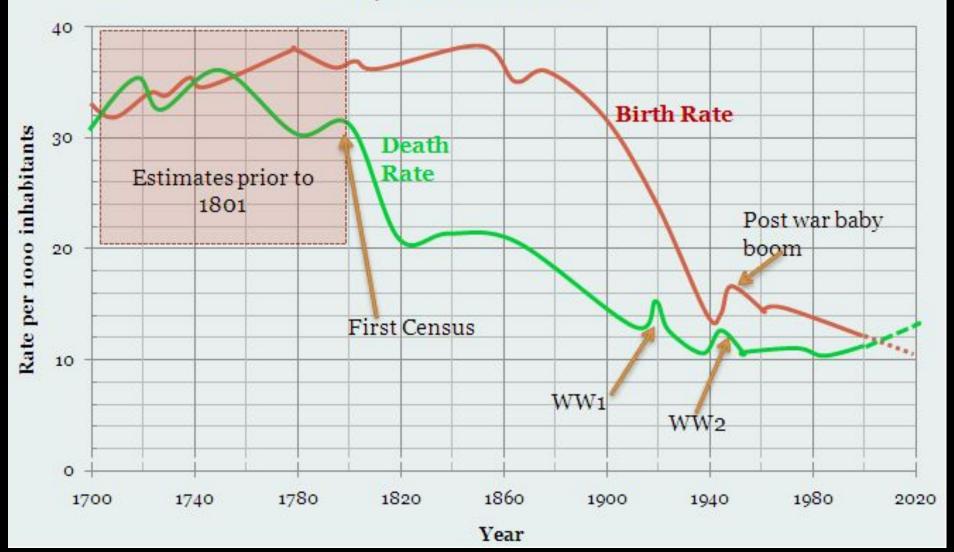


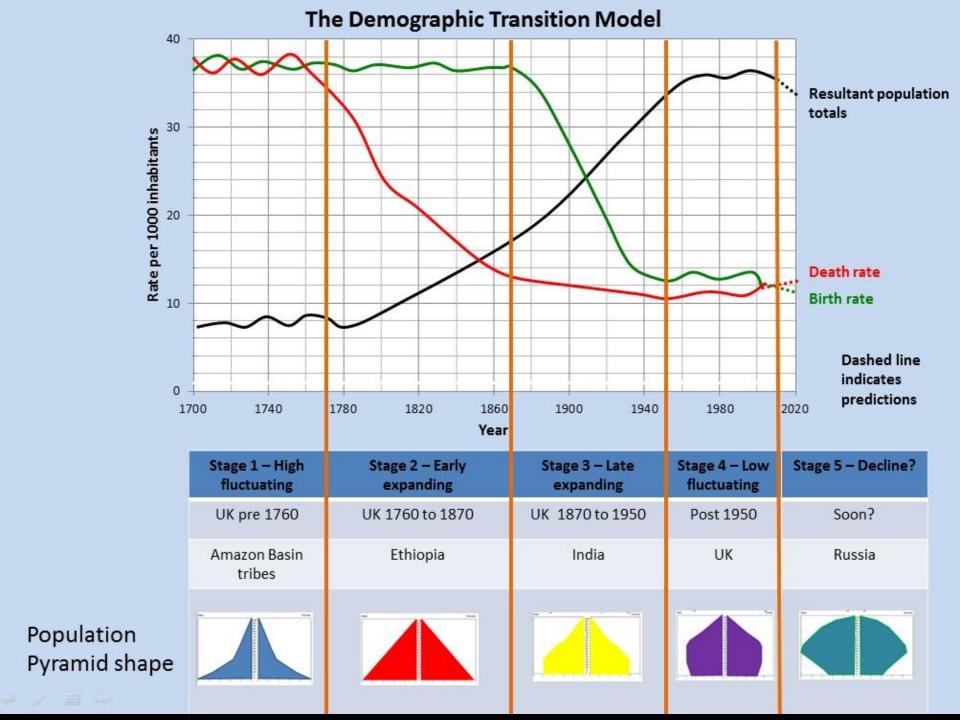
Stages

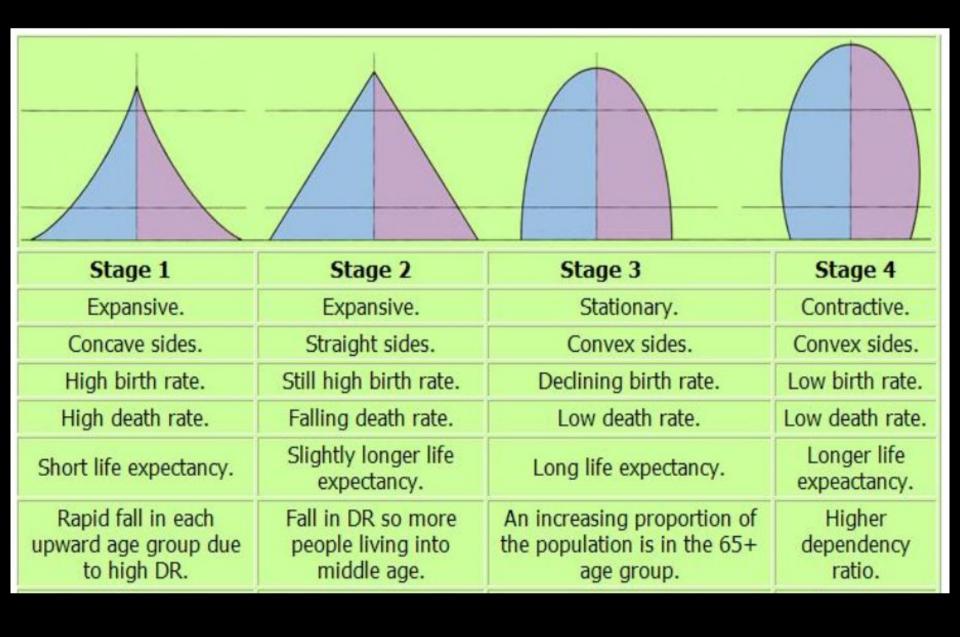
It originally consisted of 4 stages, and a fifth stage has been added.

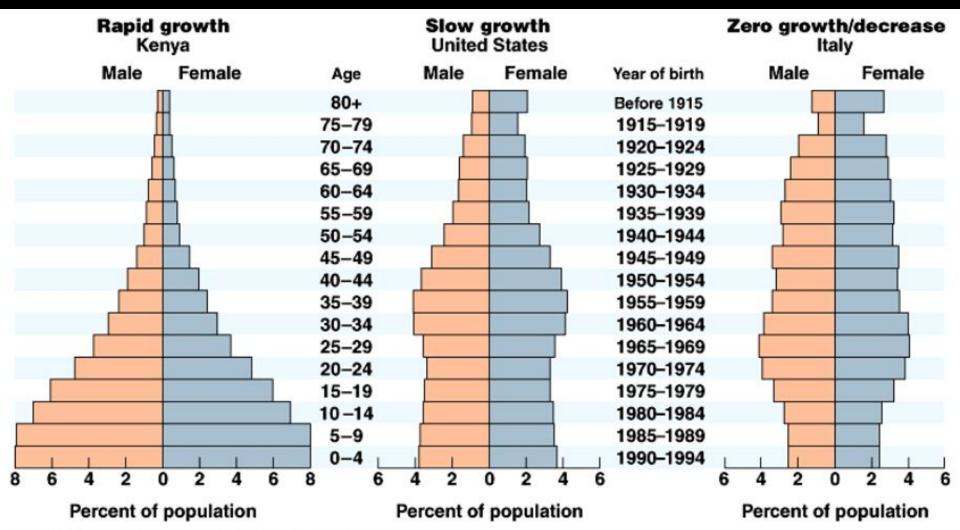
- In stage 1 both the birth rate and death rates are high and fluctuating
- In stage 2 the Birth rates stay high throughout because improvements in society affected death rate first.
- In stage 3 birth rates finally begin to fall and become almost on a par with death rates
- In stage 4 both death rates and birth rates remain low and fluctuate, giving a steady population.
- A final stage has been added to the model, based upon recent countries experiences.

Britain's Demographic Transition from 1700 onwards

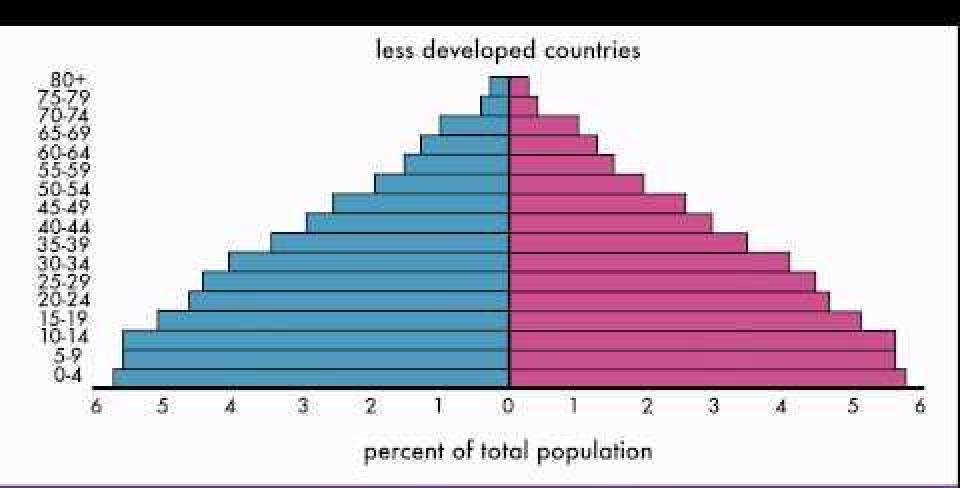








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population pyramids

Simulation

Use the computer and go to this website. Answer the following questions.

http://www.learner.org/courses/envsci/interactives/demographics/demog.html

- 1. Change the country to Japan, make the birthrate as close to 1 per woman, and the death rate as close to 1.5 as possible. press play. Describe what happens to the graph and what it looks like.
- 2. Change the country to America, make the birthrate as close to 1.8 per woman, and the death rate as close to 2.0 as possible. press play.

 Describe what happens to the graph and what it looks like.
- 3. Pick a country and your birthrate and death rate. Write them down. Describe what happens to the graph and what it looks like.